

MANUAL NO. 901-2167

# TRACK & FIELD

An illustration of three athletes in the background of the title: a male runner, a female runner, and a male high jumper.

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**SERVICE  
MANUAL**



# TRACK AND FIELD

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## USER INFORMATION - F.C.C.

### WARNING

THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTIONS MANUAL, MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS.

IT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" COMPUTING DEVICE PURSUANT TO SUBPART J OF PART 15 OF F.C.C. RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE WHEN OPERATED IN A COMMERCIAL ENVIRONMENT.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE INTERFERENCE IN WHICH CASE THE USER AT HIS OWN EXPENSE WILL BE REQUIRED TO TAKE WHATEVER MEASURES MAY BE REQUIRED TO CORRECT THE INTERFERENCE.

## INTRODUCTION

"TRACK & FIELD IS A MICROPROCESSOR BASED COIN-OPERATED ELECTRONIC GAME, THAT MAKES EXTENSIVE USE OF DIGITAL INTEGRATED CIRCUITRY AND TELEVISION MONITOR CONCEPTS. THIS MANUAL IS DESIGNED FOR THE USE OF MAINTENANCE TECHNICIANS WHO POSSESS A GENERAL KNOWLEDGE OF SOLID-STATE CIRCUITRY AND VIDEO MONITOR THEORY. ANY INDIVIDUAL NOT KNOWLEDGEABLE IN THESE AREAS SHOULD NOT ATTEMPT REPAIR OF THE ELECTRONIC PORTIONS OF THE GAME.

IN ADDITION TO THIS MANUAL AND TRAINING IN ELECTRONICS, TROUBLE-SHOOTING AND REPAIR WILL BE FACILITATED BY ACCESS TO GENERAL-TYPE HANDTOOLS, A MULTIMETER, A 50 OR 100 MHZ OSCILLOSCOPE AND A LOGIC PROBE WOULD BE HELPFUL.

TECHNICAL ASSISTANCE IS AVAILABLE BY CALLING (305) 558-5200 OR OUR TOLL FREE LINE LISTED BELOW.

QUESTIONS OR COMMENTS CONCERNING "TRACK & FIELD" OR ANY OF OUR GAMES ARE WELCOME AND SHOULD BE DIRECTED TO:

CENTURI, INC.

CUSTOMER SERVICE DEPARTMENT

#800-327-7710 (OUTSIDE THE STATE OF FLA.)

## NOTES

NEVER REPLACE ANY COMPONENT WITH ANYTHING OTHER THAN THE EXACT REPLACEMENT PART.

NEVER REMOVE CIRCUIT BOARD CONNECTIONS WHILE POWER IS ON.

DO NOT REPLACE A FUSE WITH ANYTHING OTHER THAN THE PROPER VALUE.

A BLOWN FUSE INDICATES AN OVERLOAD CONDITION WITHIN THE GAME.

REPLACING A FUSE WITH A HIGHER VALUE CAN CAUSE SEVERE DAMAGE TO INTERNAL COMPONENTS IF AN OVERLOAD OCCURS.

ALWAYS CONSULT THE SERVICE MANUAL BEFORE ATTEMPTING REPAIRS.

## PLAY INSTRUCTIONS

- \* TAP "RUN" AND THE PLAYER WILL RUN.
- \* PUSH "JUMP/THROW" AND THE PLAYER WILL JUMP OR THROW.
- \* HOLD "JUMP/THROW" BUTTON DOWN TO INCREASE ANGLE OF JUMP OR THROW.
- \* IF YOU DO NOT QUALIFY IN AN EVENT THE GAME IS OVER.

## EVENTS

### I. 100M DASH:

KEEP TAPPING "RUN" TO INCREASE SPEED.  
DISQUALIFICATION FOR 3 FALSE STARTS.

### II&III. LONG JUMP & JAVELIN THROW:

KEEP TAPPING "RUN" TO INCREASE SPEED.  
PUSH "JUMP/THROW" AT PROPER POSITION AND HOLD TO CONTROL ANGLE.

### IV. 110M HURDLE:

TAP "RUN" TO INCREASE SPEED OF RUNNER.  
PRESS "JUMP" TO CLEAR HURDLES.

### V. HAMMER THROW:

PRESS "RUN" AND RELEASE.  
PRESS "THROW" AT PROPER POSITION.  
HOLD TO DETERMINE ANGLE OF THROW.

### VI. HIGH JUMP:

PUSH "RUN" AND RELEASE.  
HIT "JUMP" AT PROPER POSITION.  
CHANGE ANGLE OF JUMP BY USING "JUMP" BUTTON AS OFTEN AS YOU LIKE.

## OPTIONAL DIP SWITCH SETTINGS

### 1. Dip Switch No.1 (8P Dip Switch)

Credits

Coin	Plays	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
1	1	Off	Off	Off	Off	Off	Off	Off	Off
1	2	On	Off	Off	Off	On	Off	Off	Off
1	3	Off	On	Off	Off	Off	On	Off	Off
1	4	On	On	Off	Off	On	On	Off	Off
1	5	Off	Off	On	Off	Off	Off	On	Off
1	6	On	Off	On	Off	On	Off	On	Off
1	7	Off	On	On	Off	Off	On	On	Off
2	1	On	On	On	Off	On	On	On	Off
2	3	Off	Off	Off	On	Off	Off	Off	On
2	5	On	Off	Off	On	On	Off	Off	On
3	1	Off	On	Off	On	Off	On	Off	On
3	2	On	On	Off	On	On	On	Off	On
3	4	Off	Off	On	On	Off	Off	On	On
4	1	On	Off	On	On	On	Off	On	On
4	3	Off	On	On	On	Off	On	On	On
Free Play		On	On	On	On	On	On	On	On

### 2. Dip Switch No.2 (8P Dip Switch)

NUMBER OF EVENT ADVANCEMENT

( If disqualified in previous event )

NUMBER OF EVENTS	SW1	SW2
One	Off	Off
Two	On	Off
Three	Off	On
Four	On	On

GAME TYPE

STYLE	SW3	PLAYERS
Table	Off	1 thru 4 Players
Upright	On	1 thru 4 Players

2. Dip Switch No. 2 continues

SW4 NOT IN USE

RANKING

MEMORY AT POWER UP	SW5
Data entered remains	Off
Data entered erased	On

LEVEL OF DIFFICULTY

OPTIONS	SW6	SW7
Easy	Off	Off
Normal	On	Off
Hard	Off	On
Difficult	On	On

AUDIO ATTRACTION

MUSIC MODE	SW8
MUSIC ON	On
MUSIC OFF	Off

## INSTALLATION

YOUR GAME WAS SHIPPED FROM THE FACTORY IN READY-TO-PLAY CONDITION.

A BRIEF INSPECTION IS SUGGESTED BEFORE THE MACHINE IS REMOVED FROM THE CARTON. IF THERE IS DAMAGE TO THE SHIPPING CARTON, CONTACT THE FREIGHT CARRIER FOR CLAIM PURPOSES. EXTERNAL DAMAGE COULD INDICATE POSSIBLE DAMAGE TO THE CABINET AND/OR ELECTRONICS COMPONENTS.

AFTER THE CARTON HAS BEEN SATISFACTORILY INSPECTED, REMOVE THE MACHINE FROM THE SHIPPING CARTON.

EXAMINE THE INTERIOR OF THE GAME FOR DISCONNECTED WIRES, CABLES OR HARNESES. MAKE SURE THE ELECTRONIC DEVICES ARE SECURELY MOUNTED IN THEIR SOCKETS, ETC. RECORD THE GAME SERIAL NUMBER, SINCE IT WILL BE REQUIRED FOR REFERENCE AND SERVICING.

## ELECTRICAL REQUIREMENTS

UNLESS OTHERWISE SPECIFIED, THIS GAME IS SET TO OPERATE AT 110 VOLTS A.C. (REFER TO 110/220 VAC CONVERSION INSTRUCTIONS).

POWER SUPPLY CHASSIS SCHEMATIC INFORMATION AND PARTS LIST ARE INCLUDED IN THIS MANUAL.

## 110/220 VAC CONVERSION INSTRUCTIONS

THIS GAME CONTAINS A HARNESS CONFIGURATION WHICH ALLOWS THE MACHINE TO BE OPERATED FROM EITHER A 110 VAC OR 220 VAC, 50 HZ OR 60 HZ POWER SOURCE. ALL GAMES SHIPPED FROM CENTURI, INC., ARE IN THE 110 VAC CONFIGURATION. TO CHANGE TO THE 220 VAC CONFIGURATION FOLLOW THE PROCEDURE BELOW.

FIRST: UNPLUG THE MACHINE FROM THE WALL OUTLET TO COMPLETELY ELIMINATE SHOCK HAZARDS.

SECOND: REMOVE THE 110 VAC PLUG FROM THE AC POWER CORD AND REPLACE WITH A 220 VAC PLUG. ATTACH THE GREEN WIRE FROM THE AC CORD TO THE GREEN SCREW OF THE 220 VAC PLUG. ATTACH THE WHITE WIRE (NEUTRAL) AND THE BLACK WIRE (HOT) OF THE AC CORD TO THE 220 VAC PLUG.

THIRD: REMOVE THE SINGLE 3 AMP SLOW-BLOW FUSE FOUND IN THE A.C. DISTRIBUTION BRACKET, AND INSTALL TWO, 1.5 AMP SLOW-BLOW FUSES. NEXT, CUT THE #18 AWG, WHITE JUMPER WIRE AT BOTH ENDS OF THE FUSE HOLDER AND REPLACE THE COVER.

FOURTH: ON THE GAME POWER TRANSFORMER, LOCATE THE "ORANGE" JUMPER PLUG WHICH IS MARKED, 110 VAC. UNPLUG THE "ORANGE" JUMPER, AND PLUG IN THE "RED" JUMPER PLUG MARKED 220 VAC.

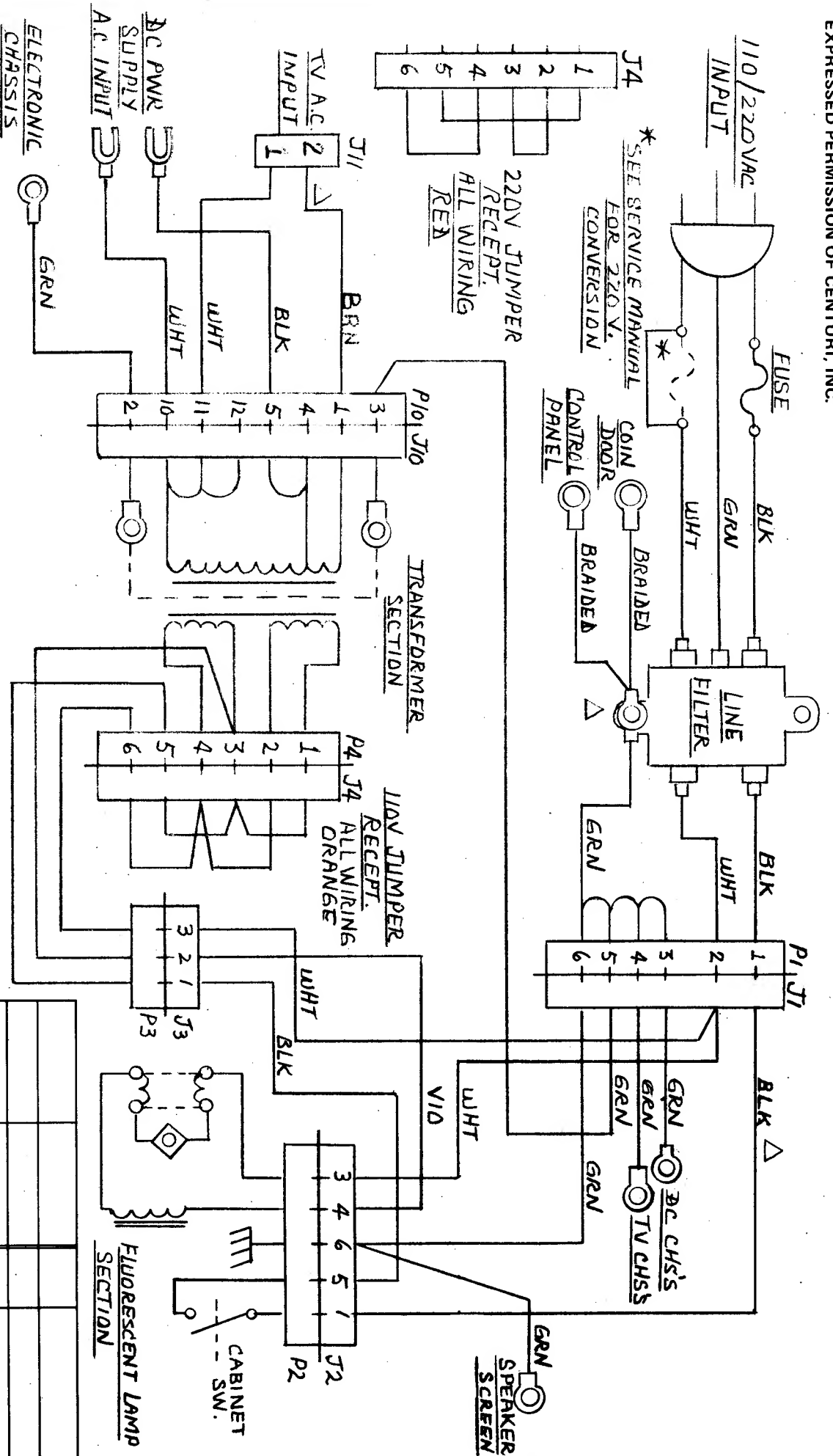
TO REVERT BACK TO 110 VAC, REPLACE THE COMPONENTS ORIGINALLY REMOVED FROM THE PROCEDURE STEPS ABOVE.

\*\*\*NOTE: THE COMMON SIDE OF THE A.C. LINE MUST NOT BE FUSED IN THE 110 VAC CONFIGURATION, REPLACE THE #18 AWG. WHITE JUMPER WIRE.

( REFER ALSO TO THE 110/220 VAC POWER INTERCONNECT DIAGRAM )

THE MATERIAL CONTAINED HEREIN IS CONFIDENTIAL  
AND NO PART OF IT CAN BE REPRODUCED WITHOUT THE  
EXPRESSED PERMISSION OF CENTURI, INC.

FIGURE 1



TOLERANCES		Unless Otherwise Specified	
FRACTIONS	± 1/32		
DECIMALS 2 PL	± .015		
DECIMALS 3 PL	± .005		
HOLES	± .003		
ANGLES	± .001		
SHT. MET BENDS	± 1/2°		
± 2°			

NAME	centuri inc.	HALEAH, FLORIDA 33014
110/220 V. POWER INTERCONNECT DIAGRAM		
MAT'L S.	HEAT TREAT.	FINISH
DWN'D	APP'D.	DATE
11/1		10-12-83
SCALE	PART NO.	REV.
1/2"	906-3129	A

QC. AP'VD	PROD. AP'VD	QTY.	ASSEMBLY NO

## ROUTINE MAINTENANCE & SERVICE

BECAUSE OF THE SOLID STATE ELECTRONIC CIRCUITRY, THIS MACHINE SHOULD REQUIRE VERY LITTLE MAINTENANCE, AND ONLY OCCASSIONAL ADJUSTMENT. HOWEVER, IT IS NECESSARY TO TAKE STEPS TO INSURE THIS.

THE VOLUME CONTROL IS LOCATED ON THE PRINTED CIRCUIT BOARD AND CAN BE ACCESSED THROUGH THE REAR CABINET DOOR.

THE VIDEO MONITOR HAS BEEN PROPERLY ADJUSTED BEFORE SHIPPING. OCCASSIONALLY MINOR ADJUSTMENTS ARE NECESSARY. TECHNICAL INFORMATION, ALONG WITH SCHEMATICS, CAN BE FOUND IN THIS MANUAL. ADJUSTMENT CONTROLS FOR THE MONITOR ARE LOCATED ON THE REAR OF THE MONITOR.

"DO NOT MAKE ANY ADJUSTMENTS ON THIS MACHINE WHILE THE POWER IS ON!" THIS MACHINE SHOULD ONLY BE ADJUSTED BY A "QUALIFIED" TECHNICIAN.

FOR SERVICE INFORMATION, CONTACT:

CENTURI, INC.

CUSTOMER SERVICE DEPARTMENT

#800-327-7710 (OUTSIDE THE STATE OF FLORIDA)

#(305) 558-5200 (IN FLORIDA)

## POWER SUPPLY

THE COMPUTER BOARD IN THIS GAME OPERATES MOST EFFICIENTLY AND RELIABLY WHEN THE POWER SUPPLY IS SET SO THE VOLTAGE ON THE BOARD IS 5.0 VOLTS,  $\pm 0.1$  VOLT. TO CHECK THIS, PLACE A METER ACROSS 5 VOLTS AND GROUND, AT THE EDGE CONNECTOR. IF NECESSARY, ADJUST THE SCREWDRIVER CONTROL ON THE POWER SUPPLY, SO THE METER READS BETWEEN 4.9 AND 5.1 VOLTS.

CABINET FRONT VIEW

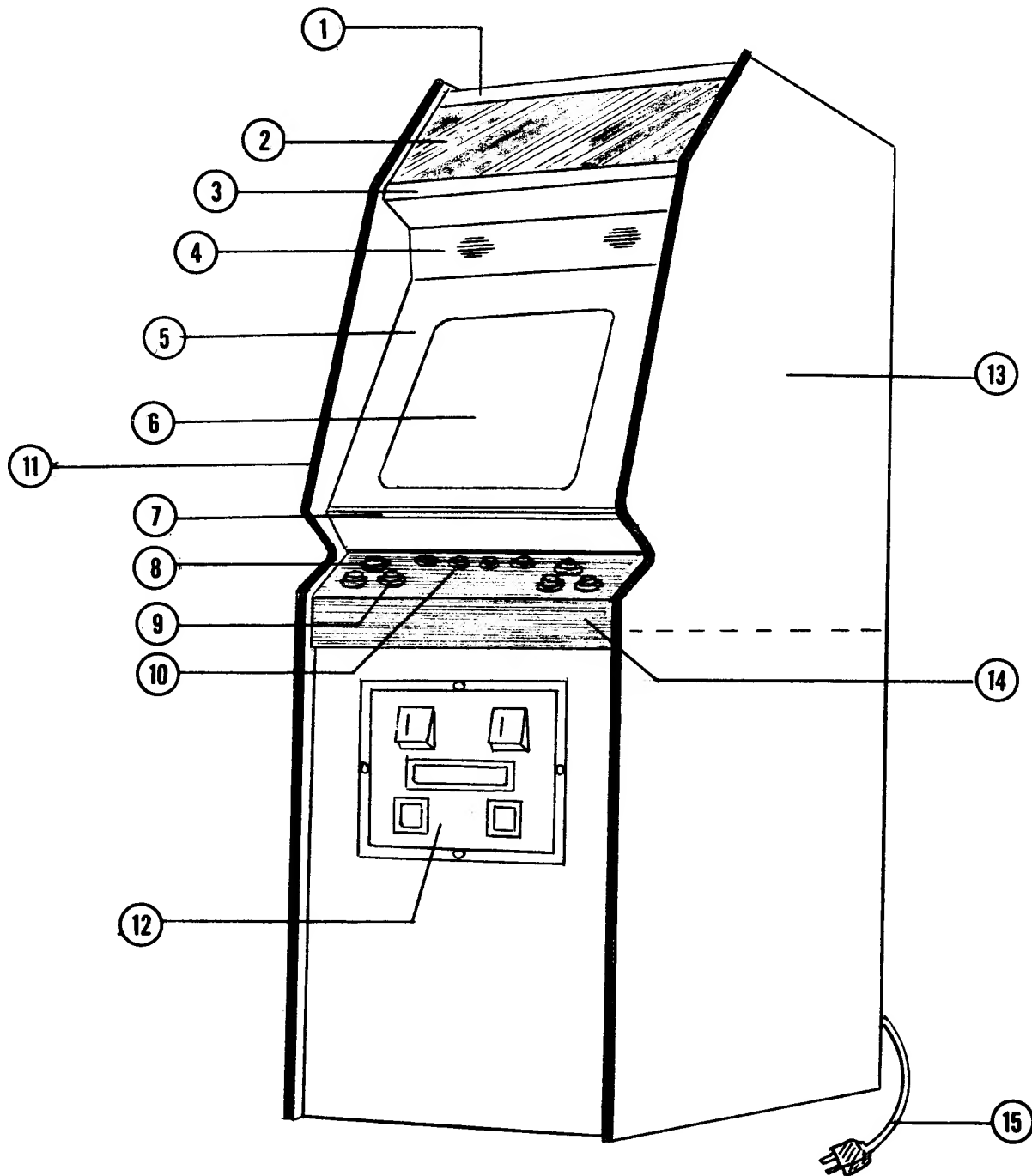


FIGURE-2

CABINET FRONT VIEW

PARTS LIST

<u>ITEM</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	302-2705	MARQUEE HOLDING BRACKET
2	802-3113	MARQUEE, TRACK & FIELD
3	302-2846	MARQUEE LOWER HOLDING BRACKET
4	403-1171	SPEAKER, 8 OHM, 6 WATT, 5¼ IN. RD.
5	804-3133	MONITOR BEZEL, TRACK & FIELD
6	605-0975	VIEWING GLASS
7	302-2844	FRONT GLASS HOLDING BRACKET
	302-2845	FRONT GLASS REAR HOLDING BRACKET ( NOT SHOWN )
8	701-1170	WHITE PUSH BUTTON
9	701-1171	RED PUSH BUTTON
10	701-1181	DARK BLUE PUSH BUTTON
	409-1163	SWITCH W/HOLDER
	103-0951	PAL NUT
11	801-3093	LEFT SIDE DECAL, TRACK & FIELD
12	009-4697	COIN DOOR
13	801-3094	RIGHT SIDE DECAL, TRACK & FIELD
14	801-3095	CONTROL PANEL OVERLAY
15	402-1511	A.C. POWER CORD, 12FT.



FIGURE 3

REV. LFT.		EON NO.	REVISION		BY	SHT MET BRANDS		1/2"		Z"	
FRACTIONS		1/32		DECIMALS 2 PL.		0.15		DECIMALS 3 PL.		0.05	
Holes		0.01		0.01		0.01		0.01		0.01	
TOLERANCES		UNLESS OTHERWISE SPECIFIED		NAME		STD SINGLE CON DDDR 1/2 CON ENTRY		MATERIALS		HEAT TREAT	
CENTUM		MATERIALS		SCALE		DATE		PART NO.		REV.	
MILCO P/N 15-8291-02		QC. APVD		PROD. APVD		QTY.		ASSEMBLY NO.		MILWAUKEE, WISCONSIN 53014	
35		8-8-63		1009-4697							

STANDARD COIN DOOR  
WICO P/N 15-8281-01

PARTS LIST

<u>ITEM NO.</u>	<u>Wico P/N</u>	<u>Description</u>	<u>Req'd</u>
1	15-8039	Door Frame	1
2	15-8038	Door	1
3	30-9125	Hinge	1
4	15-8117	Nameplate, Centuri	1
5	15-8074	Coin Entry Plate	2
6	15-8072	Push Button, Cover	2
7	26-0583	Label, Push to reject, 25¢	2
8	15-8071	Push Button	2
9	30-7722	Compression Spring	2
10	15-8084	Reject Lever	2
11	15-8075	Coin Chute	2
12	15-9419	Lamp Holder Ass'y	2
13	21-0044	Miniature Lamp, 6V	2
14	15-8083	Coin Return Door	2
15	15-8081	Coin Box	2
16	15-8092	Guard	2
19	23-1347	Coin Switch	2
20	15-8043	Switch Cover	2
21	15-1255	Slam Switch	1
22	31-4015	Plastic Coin Acceptor, 25¢	2
23	15-8086	Coin Acceptor Retainer	2
24	30-1790	Washer, .255 ID x .625 OD x .037" Thick	2
25	30-0931	"E" Ring, ¼"	2
26	30-7372	Extension Spring	2
27	31-4550	Coin Counter, 6VDC, W/Brkt	1
28	15-8113	Bracket	1
29	23-1370	Service Switch	1
31	34-1855	Lock Ass'y, 5/8"	1
32	55-2905	Lock Cam Ass'y	1
33	55-2909	Lock Cam Plate	2
34	30-3001	M.S. Pan Hd, Phil.#6-32 x ¼"lg	9
35	30-0164	M.S. F/Hd, Phil.#6-32 x 3/8"lg	2
36	30-1921	Washer, .165 ID x .475 OD x .032" Thick	2
37	30-2826	M.S. Fil/Hd. Phil.#6-32 x 7/16"lg	12
38	30-2818	M.S. Rd/Hd. #4-40 x 7/8" lg	2
39	30-1213	Hex. Nut, #4-40	2
40	30-2778	M.S. Fil/Hd. Phil.#6-32 x ½"lg	2
41	30-2833	M.S.Pan/Hd. Phil. #6-32 x 3/16"lg	9
42	23-1348	Wire Form (Coin Switch)	2
43	97-0007	Door Cable Ass'y	1
44	26-3125	Double Sided Tape (3M) ½"x½"	1
45	15-8107	Key Hook	1



Power Supply PSR-703AE  
PARTS LIST (414-2020)

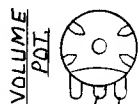
<u>Symbol</u>	<u>Description</u>	<u>Qty</u>
D1	Bridge Stack, RB-40, 600V	1
D4,D5	Fast Recovery Diode, 1GH62	2
D2,D3,D7, D8,D9,D10	Switching Diode, 1S1554	6
D11	Fast Recovery Diode, S5KC20H	1
D12,D13	Fast Recovery Diode, 10DF1	2
D16	Schotky Barrier Diode, C8P030	1
ZD1	Zener Diode, 05Z, 5.6V, 500mw	1
Q1,Q2	Power Transistor, 2SC2553	2
Q3	Power Transistor, 2SC2831	1
Q4,Q5	Transistor, 2SA564R	2
Q6,Q7	Transistor, 2SC828R	2
IC 1	Switching Control, UPC494C	1
IC 2	Regulator IC, 7805 (1A)	1
T1	Power Transformer, SM2335	1
T2,T3	Driver Transformer, SM2215B	2
T4	Power Transformer (Sub) SM2376	1
CH1	Choke Transformer, SM2219	1
CH2	Choke Transformer, SM2376B	1
CH4	Choke Transformer, SM2366	1
L1	AC Line Filter, ELF-18D-112	1
TH1	Power Thermistor, TD18-010	1
C2,C3	Ceramic Capacitor, 2200pf, AC400V	2
C1	Capacitor, Metalized, 0.033mf, 600V	1
C6	" " , 0.47mf, 50V	1
C15	" , Mylar, 0.001mf, 50V	1
C9,C13,C34, C35,C37	" " , 0.01mf	5
C12	" " , 0.0047mf	1
C31	" " , 0.1mf	1
C18	Capacitor, Ceramic, 50pf, 50V	1
C7	" " , 330pf, 1kv	1
C16,C28	" " , 0.01mf, 16V	2
C20,C23	" " , 0.1mf, 16V	2
C14	Capacitor,Electrolytic, 4.7mf, 25V	1
C10	" " , 10mf, 16V	1
C11	" " , 100mf, 16V	1
C21	" " , 220 mf, 35V	1
C22	" " , 470mf, 16V	1
C17,C19	" " , 470mf, 25V	2
C29,C30	" " , 2200mf, 10V	2
C4, C5	" " , 220mf, 180V	2
R31	Resistor,Cement, 270 ohm, 5W	1
R34	" , Oxide Metal Film, 33 ohm, 3W	1
R9	" " " " , 470 ohm,2W	1
R3	" " " " , 100 ohm,2W	1

POWER SUPPLY PSR-703AE  
PART LIST (414-2020)

<u>Symbol</u>	<u>Description</u>	<u>Qty</u>
R36,R37,R39	Resistor, Carbon, 5.1 ohm, 1/2 W	3
R4,R5	" " , 12 ohm, 1/2 W	2
R6,R7	" " , 22 ohm, 1/2 W	2
R1,R2	" " , 150K ohm, 1/2 W	2
R8	" " , 330K ohm, 1/2 W	1
R12	" " , 150 ohm, 1/4 W	1
R10	" " , 1K ohm, 1/4 W	1
R11	" " , 10 ohm, 1/4 W	1
R40	" " , 3.9K ohm, 1/4 W	1
R35	" " , 5.1K ohm, 1/4 W	1
R18,R27	" " , 100 ohm, 1/4 W	2
R30	" " , 180 ohm, 1/4 W	1
R22	" " , 220 ohm, 1/4 W	1
R32	" " , 1K ohm, 1/4 W	1
R26	" " , 1.8K ohm, 1/4 W	1
R12,R14	" " , 5.1K ohm, 1/4 W	2
R28	" " , 10K ohm, 1/4 W	1
R29	" " , 15K ohm, 1/4 W	1
R23	" " , 20K ohm, 1/4 W	1
R19	" " , 6.8K ohm, 1/4 W	1
R15,R16,R17,R33	" " , 100K ohm, 1/4 W	4
R21	" " , 150K ohm, 1/4 W	1
R25	" " , 270K ohm, 1/4 W	1
R20	" " , 390 ohm, 1/4 W	1
VR1	Semi-fixed resistor, GFD6-B 3K	1
RS1	Manganese Metal Wire, A-2145	1
RS2	Manganese Metal Wire, 1.0 Ø x 55m/m	1
F1	Fuse, 3 amp.	1
	Fuse Holder, F-207	1

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AND NO PART OF IT CAN BE REPRODUCED WITHOUT THE  
EXPRESSED PERMISSION OF CENTURI, INC.

VOLUME  
PQI.

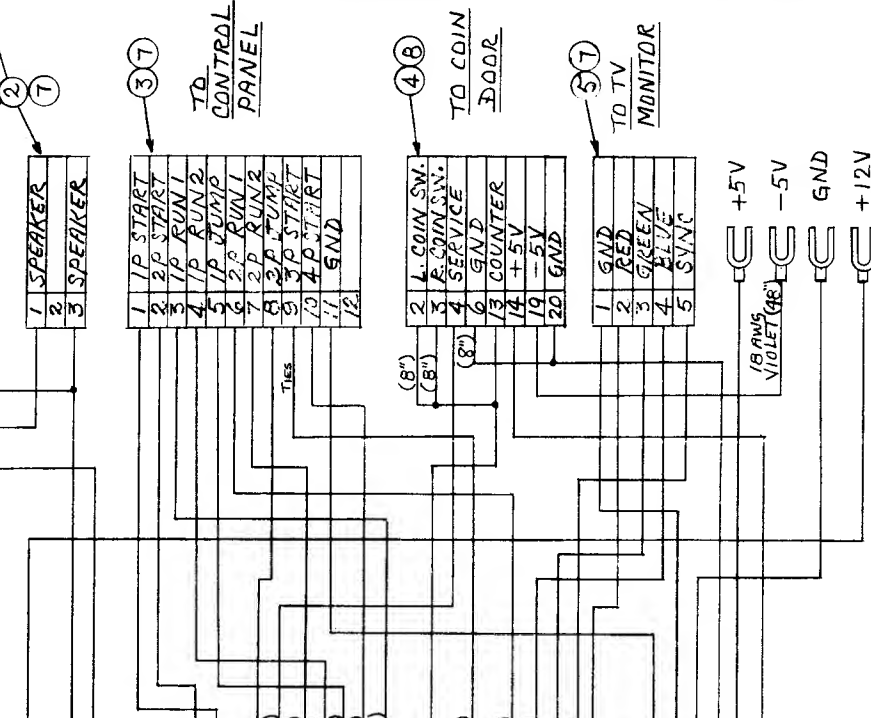


COMPONENT SIDE

1	12V	1	ORANGE - 18AWG (18")
2	SPEAKER	2	GRAY - 22AWG (70")
3	SPEAKER	3	GRAY - 22AWG (88")
4	4P JUMP	4	GRAY - 22AWG (48")
5	3P JUMP	5	WHITE - 22AWG (48")
6	3P JUMP	6	VIOLET - 22AWG (48")
7	3P JUMP	7	ORANGE - 22AWG (46")
8	3P JUMP	8	BROWN - 22AWG (48")
9	3P JUMP	9	BLUE - 22AWG (48")
10	3P JUMP	10	GREEN - 22AWG (48")
11	3P JUMP	11	RED - 22AWG (48")
12	3P JUMP	12	ORANGE - 22AWG (48")
13	3P JUMP	13	BLUE - 22AWG (46")
14	3P JUMP	14	YELLOW - 22AWG (48")
15	3P JUMP	15	YELLOW - 22AWG (48")
16	3P JUMP	16	BLUE - 22AWG (38")
17	3P JUMP	17	GREEN - 22AWG (38")
18	3P JUMP	18	WHITE - 22AWG (38")
19	3P JUMP	19	RED - 22AWG (38")
20	3P JUMP	20	BLACK - 22AWG (48")
21	3P JUMP	21	BLACK - 22AWG (38")
22	3P JUMP	22	BLACK - 18AWG (22")
23	3P JUMP	23	RED - 18AWG (22")
24	3P JUMP	24	RED - 22AWG (46")

DUAL  
18P EDGE  
CONNECTOR

SOLDER SIDE



REV. LET.	ECN NO.	REVISION	BY	ANGLES	Holes	FRACTIONS	DECIMALS 2 PL	DECIMALS 3 PL	±	1/32	±	015	±	005	±	003	±	001	±	1/2	±	2

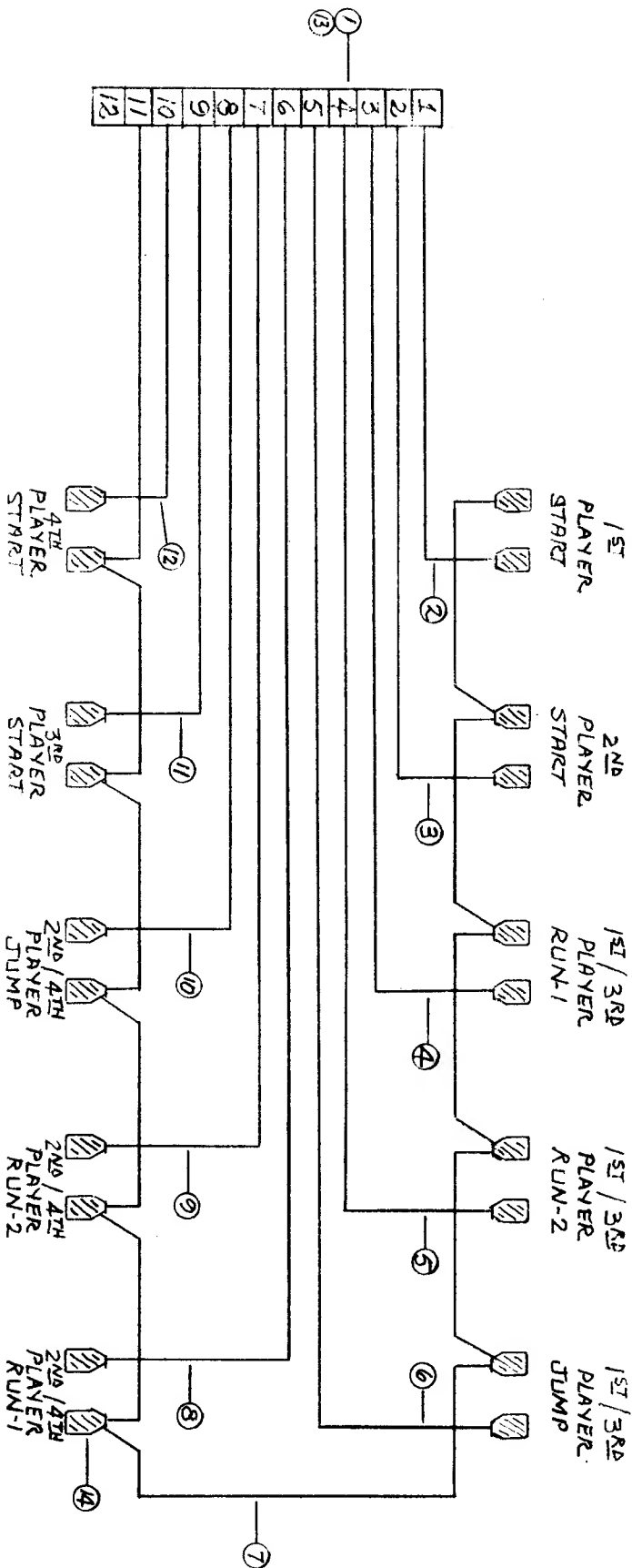
FIGURE 5

ITEM	QTY	PART NO.	DESCRIPTION
24	1	417-1601	4" TY WIRAPS
23	18	402-1530	INSULATED WIRE, ORANGE, 18 AWG
22	48	402-1534	INSULATED WIRE, VIOLET, 18 AWG
21	22	402-1521	INSULATED WIRE, BLACK, 18 AWG
20	86	402-1526	INSULATED WIRE, WHITE, 22 AWG
19	48	402-1518	INSULATED WIRE, BROWN, 22 AWG
18	32	402-1519	INSULATED WIRE, RED, 22 AWG
17	94	402-1520	INSULATED WIRE, ORANGE, 22 AWG
16	96	402-1521	INSULATED WIRE, YELLOW, 22 AWG
15	86	402-1522	INSULATED WIRE, GREEN, 22 AWG
14	48	402-1523	INSULATED WIRE, BLUE, 22 AWG
13	48	402-1524	INSULATED WIRE, VIOLET, 22 AWG
12	208	402-1525	INSULATED WIRE, GRAY, 22 AWG
11	140	402-1511	INSULATED WIRE, BLACK, 22 AWG
10	22	402-1529	INSULATED WIRE, RED, 18 AWG
9	25	401-1241	CRIMP TERMINAL, MOLEX 02-03-0303
8	8	401-1234	FEMALE PIN, AMP 550665-1
7	22	401-1223	FEMALE PIN, MOLEX 02-09-1116
6	4	401-1246	INSULATOR OPEN LUG
5	1	401-1231	6P RECEPT, MOLEX 03-09-1061
4	1	401-1233	24P RECEPT, AMP 1-350246-9
3	1	401-1232	12P RECEPT, MOLEX 03-09-1125
2	3	401-1225	3P RECEPT, MOLEX 03-09-1031
1	1	401-1247	DUAL 18P EDGE CONN., MOLEX 09-50-5185

BILL OF MATERIALS

QC	APV'D	PROD.	APV'D	QTY.	ASSEMBLY NO.
				1	
centuri inc.					
NAME CPU HARNESS - TRACK & FIELD, UIR					
MATERIALS					
HEAT TREAT.					
FINISH					
PART NO. 008-4913					
REV. 008-4913					
DATE 9-28-83					
SCALE 1/2"					
DWN. M.J.					
APPD. M.J.					

FIGURE 6



8	18"	402-1521	INSULATED WIRE, YELLOW, 22AWG	15	A/R	417-1601	TY WIRAPS 4"
7	112"	402-1517	INSULATED WIRE, BLACK, 22AWG	14	2.0	401-1302	3/16" PUSH ON TERMINAL, ETC #85
6	27 1/2"	402-1522	INSULATED WIRE, GREEN, 22AWG	13	11	401-1222	WALE PIN, MOLEX, 02-09-2116
5	25"	402-1523	INSULATED WIRE, BLUE, 22AWG	12	27"	402-1519	INSULATED WIRE, RED, 22AWG
4	29"	402-1524	INSULATED WIRE, ORANGE, 22AWG	11	25"	402-1524	INSULATED WIRE, YELLOW, 22AWG
3	22"	402-1525	INSULATED WIRE, GRAY, 22AWG	10	15 1/2"	402-1524	INSULATED WIRE, VIOLET, 22AWG
2	22"	402-1526	INSULATED WIRE, WHITE, 22AWG	9	13"	402-1518	INSULATED WIRE, BROWN, 22AWG
1	1	401-1230	12P Molex Plug #03-09-2122	ITEM QTY	PART NO.	DESCRIPTION	

BILL OF MATERIALS

TOLERANCES

centuri inc.

HIALEAH, FLORIDA 33014

NAME  
CONTROL PANEL HARNESS- TRACK & FIELD, U/R

HEAT TREAT.

FINISH

REV. LET.	ECN NO.	REVISION	BY	ANGLES	SH. MET BENDS	±	1/2"	2"	DWN	DATE	SCALE	PART NO.	REV.
									M/S	9-28-83	2	008-4914	



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